10/735,972

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     (FILE 'HOME' ENTERED AT 15:15:48 ON 13 FEB 2007)

     FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,
     LIFESCI' ENTERED AT 15:16:28 ON 13 FEB 2007
                E BERAUD C/AU
L1           129 S E9
L2          1307 S ASTRAL (W) MICROTUBUL?
L3             0 S L1 AND L2
L4         18079 S DIVIDING (W)CELL?
L5             0 S L1 AND L2
L6             0 S L1 AND L4
L7         27432 S DISTAL (W)END
L8             0 S L1 AND L7
L9          3202 S KIF##
L10            7 S L1 AND L9
L11            7 DUP REM L10 (0 DUPLICATES REMOVED)
                E WIEMANN S/AU
L12          153 S E7
L13            0 S L2 AND L12
L14            0 S L7 AND L12
L15        24219 S GROWTH (A)CONE
L16            0 S L1 AND L15
                E  PEREIRA A/AU
L17         1277 S E3
                E WENTWORTH D B/AU
L18           34 S E3
                E GANDHI R/AU
L19          300 S E3
L20         1605 S L17 OR L18 OR L19
L21            1 S L20 AND L9
L22           15 S PROPHASE (W)CENTROMERE
L23            0 S (L12 OR L1) AND L22

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NEWS 1		Web Page URLs for STN Seminar Schedule - N. America
NEWS 2		"Ask CAS" for self-help around the clock
NEWS 3	OCT 23	The Derwent World Patents Index suite of databases on STN has been enhanced and reloaded
NEWS 4	OCT 30	CHEMLIST enhanced with new search and display field
NEWS 5	NOV 03	JAPIO enhanced with IPC 8 features and functionality
NEWS 6	NOV 10	CA/CAplus F-Term thesaurus enhanced
NEWS 7	NOV 10	STN Express with Discover! free maintenance release Version 8.01c now available
NEWS 8	NOV 20	CA/CAplus to MARPAT accession number crossover limit increased to 50,000
NEWS 9	DEC 01	CAS REGISTRY updated with new ambiguity codes
NEWS 10	DEC 11	CAS REGISTRY chemical nomenclature enhanced
NEWS 11	DEC 14	WPIDS/WPINDEX/WPIX manual codes updated
NEWS 12	DEC 14	GBFULL and FRFULL enhanced with IPC 8 features and functionality
NEWS 13	DEC 18	CA/CAplus pre-1967 chemical substance index entries enhanced with preparation role
NEWS 14	DEC 18	CA/CAplus patent kind codes updated
NEWS 15	DEC 18	MARPAT to CA/CAplus accession number crossover limit increased to 50,000
NEWS 16	DEC 18	MEDLINE updated in preparation for 2007 reload
NEWS 17	DEC 27	CA/CAplus enhanced with more pre-1907 records
NEWS 18	JAN 08	CHEMLIST enhanced with New Zealand Inventory of Chemicals
NEWS 19	JAN 16	CA/CAplus Company Name Thesaurus enhanced and reloaded
NEWS 20	JAN 16	IPC version 2007.01 thesaurus available on STN
NEWS 21	JAN 16	WPIDS/WPINDEX/WPIX enhanced with IPC 8 reclassification data
NEWS 22	JAN 22	CA/CAplus updated with revised CAS roles
NEWS 23	JAN 22	CA/CAplus enhanced with patent applications from India
NEWS 24	JAN 29	PHAR reloaded with new search and display fields
NEWS 25	JAN 29	CAS Registry Number crossover limit increased to 300,000 in multiple databases
NEWS 26	FEB 13	CASREACT coverage to be extended

NEWS EXPRESS	NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP), AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
NEWS HOURS	STN Operating Hours Plus Help Desk Availability
NEWS LOGIN	Welcome Banner and News Items
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FILE 'HOME' ENTERED AT 15:15:48 ON 13 FEB 2007

=> file medline embase biosis biotechds scisearch hcaplus nti slifesci
'SLIFESCI' IS NOT A VALID FILE NAME
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specify a corrected file name or you can enter "IGNORE" to continue
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ENTER A FILE NAME OR (IGNORE):lifesci
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                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.21       0.21

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FILE 'LIFESCI' ENTERED AT 15:16:28 ON 13 FEB 2007
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E1            9     BERAUD ALEXANDRE/AU
E2            9     BERAUD B/AU
E3          507 --> BERAUD C/AU
E4            1     BERAUD C L/AU
E5            9     BERAUD CASSEL A M/AU
E6            3     BERAUD CATHERINE/AU
E7            1     BERAUD CEDRIC FRANCIS/AU
E8            1     BERAUD CH J/AU
E9          129     BERAUD CHRISTOPHE/AU
E10           4     BERAUD CL/AU
E11           1     BERAUD CLAUDIUS/AU
E12          21     BERAUD COLOMB E/AU

=> s e9
L1          129 "BERAUD CHRISTOPHE"/AU
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=> s astral (w) microtubul?
L2         1307 ASTRAL (W) MICROTUBUL?

=> s l1 and l2
L3            0 L1 AND L2

=> s dividing (w)cell?
L4        18079 DIVIDING (W) CELL?

=> s l1 and l2
L5            0 L1 AND L2

=> s l1 and l4
L6            0 L1 AND L4

=> s distal (w)end
L7        27432 DISTAL (W) END

=> s l1 and l7
L8            0 L1 AND L7

=> s KIF##
L9         3202 KIF##

=> s l1 and l9
L10           7 L1 AND L9

=> dup rem l10
PROCESSING COMPLETED FOR L10
L11           7 DUP REM L10 (0 DUPLICATES REMOVED)

=> d 1-7 ibib ab

L11  ANSWER 1 OF 7  HCAPLUS  COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:         2003:667365  HCAPLUS
DOCUMENT NUMBER:          139:209659
TITLE:                    Identification, sequence and drug screening use of
                          human kinesin motor protein HsKifC2
INVENTOR(S):              Beraud, Christophe; Freedman, Richard
PATENT ASSIGNEE(S):       Cytokinetics, Inc., USA
SOURCE:                   U.S., 27 pp.
                          CODEN: USXXAM
DOCUMENT TYPE:            Patent
LANGUAGE:                 English
FAMILY ACC. NUM. COUNT:   1
PATENT INFORMATION:

     PATENT NO.           KIND   DATE        APPLICATION NO.          DATE
     --------------       ----   --------    --------------------     --------
     US 6610525            B1    20030826    US 2000-721251           20001122
     US 6706489            B1    20040316    US 2002-114764           20020402
PRIORITY APPLN. INFO.:                       US 2000-721251       A1  20001122
AB   The present invention is based on the discovery of a new human kinesin
     motor protein, HsKifC2, the polynucleotide encoding HsKifC2, and the use
     of these compns. for the diagnosis, treatment, or prevention of cancer,
     neurol. disorders, and disorders of vesicular transport.  The invention
     provides isolated nucleic acid and amino acid sequences of HsKifC2,
     antibodies to HsKifC2, methods of screening for HsKifC2 modulators using
     biol. active HsKifC2, and kits for screening for HsKifC2 modulators.  A
     drug screening assay based on a microtubule-stimulated ATPase activity of
     HsKifC2 is disclosed.
REFERENCE COUNT:          7      THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS
                                 RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT
```

L11 ANSWER 2 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:654999 HCAPLUS
DOCUMENT NUMBER: 137:197521
TITLE: High throughput screening systems for identifying modulators of microtubule-stimulated ATPase activity of kinesin motor proteins
INVENTOR(S): Beraud, Christophe; Finer, Jeffrey T.; Sakowicz, Roman; Wood, Kenneth W.
PATENT ASSIGNEE(S): Cytokinetics, Inc., USA
SOURCE: U.S., 34 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6440684	B1	20020827	US 2000-592054	20000612
PRIORITY APPLN. INFO.:			US 2000-592054	20000612

AB The present invention provides high throughput screening systems for identifying compds. that modulate the activity of target proteins having motor domains and microtubule-stimulated ATPase activity. These compds. are useful in the treatment of cellular proliferation disorders. The method can be performed in plurality simultaneously with fluorescence or absorbance readouts. In one embodiment the target protein is human kinesin Kif4 (HsKif4) or HsKif4 construct.
REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 3 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:570671 HCAPLUS
DOCUMENT NUMBER: 137:121353
TITLE: Identification, sequence and drug screening use of a human kinesin HsKif12a
INVENTOR(S): Beraud, Christophe; Freedman, Richard
PATENT ASSIGNEE(S): Cytokinetics, Inc., USA
SOURCE: U.S., 19 pp., Cont. of U.S. Ser. No. 632,155.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6426207	B1	20020730	US 2000-723430	20001127
US 6429005	B1	20020806	US 2000-632155	20000803
PRIORITY APPLN. INFO.:			US 2000-632155	A1 20000803

AB The discovery of a new kinesin motor protein which is the human ortholog of mouse kinesin Kif12 is disclosed. The invention provides isolated cDNA and amino acid sequences of the human HsKif12a, antibodies to HsKif12a, methods of screening for HsKif12a modulators using biol. active HsKif12a, and kits for screening for HsKif12a modulators. The assay for HsKif12a based on detection of ADP production from microtubule stimulated ATPase of HsKif12a is proposed.
REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 4 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:403847 HCAPLUS
DOCUMENT NUMBER: 137:2234
TITLE: Cloning, characterization and use of a novel human kinesin motor protein HsKifC2

INVENTOR(S): Beraud, Christophe; Freedman, Richard
PATENT ASSIGNEE(S): Cytokinetics, Inc., USA
SOURCE: U.S., 27 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6395540	B1	20020528	US 2000-721137	20001122
WO 2002079479	A2	20021010	WO 2001-US43596	20011116
WO 2002079479	A3	20031023		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001297707	A1	20021015	AU 2001-297707	20011116
EP 1373520	A2	20040102	EP 2001-273522	20011116
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
US 2004161755	A1	20040819	US 2003-432424	20031126
PRIORITY APPLN. INFO.:			US 2000-721137 A	20001122
			WO 2001-US43596 W	20011116

AB The invention provides isolated cDNA and amino acid sequences of a new human kinesin motor protein, HsKifC2, antibodies to HsKifC2, methods of screening for HsKifC2 modulators using biol. active HsKifC2, and kits for screening for HsKifC2 modulators. The kinesin HsKifC2 comprises a motor domain and has microtubule-stimulated ATPase activity.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 5 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:114032 HCAPLUS
DOCUMENT NUMBER: 136:146891
TITLE: Human kinesin motor protein HsKif6 and its use in diagnosis and treatment of cancer, neurological disease and vesicular transport disorders
INVENTOR(S): Beraud, Christophe; Freedman, Richard
PATENT ASSIGNEE(S): Cytokinetics, Inc., USA
SOURCE: U.S., 20 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6346410	B1	20020212	US 2000-637481	20000811
US 6416966	B1	20020709	US 2000-723428	20001127
US 6492158	B1	20021210	US 2000-724520	20001127
PRIORITY APPLN. INFO.:			US 2000-637481 A1	20000811

AB The invention provides isolated nucleic acid and amino acid sequences of human kinesin motor protein HsKif6. In another embodiment, antibodies to HsKif6, methods of screening for HsKif6 modulators using biol. active HsKif6, and kits for screening for HsKif6 modulators are provided. The

hsKif6 protein has uses in the diagnosis and treatment of cellular proliferation disorders including cancer, hyperplasias, restenosis, cardiac hypertrophy, immune disorders and inflammation.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 6 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2002:6347 HCAPLUS
DOCUMENT NUMBER: 136:81691
TITLE: Sequence, characterization and use of a novel human kinesin motor protein HsKifC2
INVENTOR(S): Beraud, Christophe; Freedman, Richard
PATENT ASSIGNEE(S): Cytokinetics, Inc., USA
SOURCE: U.S., 27 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6335189	B1	20020101	US 2000-721383	20001122

PRIORITY APPLN. INFO.: US 2000-721383 20001122

AB The invention provides isolated cDNA and amino acid sequences of a novel human kinesin motor protein, HsKifC2, antibodies to HsKifC2, methods of screening for HsKifC2 modulators using biol. active HsKifC2, and kits for screening for HsKifC2 modulators. The kinesin HsKifC2 comprises a motor domain and has microtubule-stimulated ATPase activity. The qual. tissue expression profile of HsKifC2 in variety of tissues is shown.

REFERENCE COUNT: 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L11 ANSWER 7 OF 7 HCAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2001:915044 HCAPLUS
DOCUMENT NUMBER: 136:50046
TITLE: Cloning, sequence and use of human kinesin HsKif9
INVENTOR(S): Beraud, Christophe; Freedman, Richard
PATENT ASSIGNEE(S): Cytokinetics, Inc., USA
SOURCE: U.S., 27 pp.
CODEN: USXXAM
DOCUMENT TYPE: Patent
LANGUAGE: English
FAMILY ACC. NUM. COUNT: 2
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 6331430	B1	20011218	US 2000-634957	20000808
US 6355447	B1	20020312	US 2000-723153	20001127
US 6387679	B1	20020514	US 2000-723429	20001127
WO 2002012541	A2	20020214	WO 2001-US24919	20010807
WO 2002012541	A3	20050721		
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW				
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
AU 2001083207	A5	20020218	AU 2001-83207	20010807
US 2005074859	A1	20050407	US 2003-344113	20030902

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PRIORITY APPLN. INFO.:                          US 2000-634957      A1 20000808
                                                WO 2001-US24919     W  20010807
AB   The invention provides isolated nucleic acid and amino acid sequences of a
     new human kinesin motor protein, HsKif9, antibodies to HsKif9, methods of
     screening for HsKif9 modulators using biol. active HsKif9, and kits for
     screening for HsKif9 modulators.
REFERENCE COUNT:          1     THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS
                                RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT


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     FILE 'MEDLINE, EMBASE, BIOSIS, BIOTECHDS, SCISEARCH, HCAPLUS, NTIS,
     LIFESCI' ENTERED AT 15:16:28 ON 13 FEB 2007
                E BERAUD C/AU
L1           129 S E9
L2          1307 S ASTRAL (W) MICROTUBUL?
L3             0 S L1 AND L2
L4         18079 S DIVIDING (W)CELL?
L5             0 S L1 AND L2
L6             0 S L1 AND L4
L7         27432 S DISTAL (W)END
L8             0 S L1 AND L7
L9          3202 S KIF##
L10            7 S L1 AND L9
L11            7 DUP REM L10 (0 DUPLICATES REMOVED)

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E1             1     WIEMANN ROMAN/AU
E2             1     WIEMANN ROSEMARIE/AU
E3           321 --> WIEMANN S/AU
E4            23     WIEMANN S U/AU
E5             2     WIEMANN SABINE/AU
E6             1     WIEMANN SANDRA/AU
E7           153     WIEMANN STEFAN/AU
E8             4     WIEMANN STEFANIE/AU
E9             9     WIEMANN STEFANIE U/AU
E10            1     WIEMANN STEFFAN/AU
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E12            3     WIEMANN STEPHANIE U/AU

=> s e7
L12          153 "WIEMANN STEFAN"/AU

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     (FILE 'HOME' ENTERED AT 15:15:48 ON 13 FEB 2007)

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L1           129 S E9
L2          1307 S ASTRAL (W) MICROTUBUL?
L3             0 S L1 AND L2
L4         18079 S DIVIDING (W)CELL?
L5             0 S L1 AND L2
L6             0 S L1 AND L4
L7         27432 S DISTAL (W)END
L8             0 S L1 AND L7
L9          3202 S KIF##
L10            7 S L1 AND L9
L11            7 DUP REM L10 (0 DUPLICATES REMOVED)
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                E WIEMANN S/AU
L12          153 S E7

=> s l2 and l12
L13            0 L2 AND L12

=> s l7 and l12
L14            0 L7 AND L12

=> s growth (a)cone
L15        24219 GROWTH (A) CONE

=> s l1 and l15
L16            0 L1 AND L15

=> e  pereira a/au
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E2            10      PEREIRA/AU
E3          1277 --> PEREIRA A/AU
E4             1      PEREIRA A */AU
E5           115      PEREIRA A A/AU
E6             5      PEREIRA A A C/AU
E7             2      PEREIRA A A D/AU
E8             2      PEREIRA A A DA SILVA/AU
E9             1      PEREIRA A A F/AU
E10            1      PEREIRA A A JR/AU
E11            4      PEREIRA A A M/AU
E12           11      PEREIRA A A S/AU

=> s e3
L17         1277 "PEREIRA A"/AU

=> e wentworth d b/au
E1           156      WENTWORTH D/AU
E2             7      WENTWORTH D A/AU
E3            34 --> WENTWORTH D B/AU
E4            50      WENTWORTH D E/AU
E5            18      WENTWORTH D F/AU
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E7             2      WENTWORTH D K/AU
E8            78      WENTWORTH D N/AU
E9             1      WENTWORTH D R/AU
E10            2      WENTWORTH D S/AU
E11            2      WENTWORTH D T/AU
E12            4      WENTWORTH D W/AU

=> s e3
L18           34 "WENTWORTH D B"/AU

=> e gandhi r/au
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E2             4      GANDHI PURVEE/AU
E3           300 --> GANDHI R/AU
E4            15      GANDHI R A/AU
E5            25      GANDHI R B/AU
E6            19      GANDHI R C/AU
E7             1      GANDHI R D/AU
E8             7      GANDHI R G/AU
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E12            3      GANDHI R M/AU

=> s e3
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L19         300 "GANDHI R"/AU

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     LIFESCI' ENTERED AT 15:16:28 ON 13 FEB 2007
                 E BERAUD C/AU
L1           129 S E9
L2          1307 S ASTRAL (W) MICROTUBUL?
L3             0 S L1 AND L2
L4         18079 S DIVIDING (W)CELL?
L5             0 S L1 AND L2
L6             0 S L1 AND L4
L7         27432 S DISTAL (W)END
L8             0 S L1 AND L7
L9          3202 S KIF##
L10            7 S L1 AND L9
L11            7 DUP REM L10 (0 DUPLICATES REMOVED)
                 E WIEMANN S/AU
L12          153 S E7
L13            0 S L2 AND L12
L14            0 S L7 AND L12
L15        24219 S GROWTH (A)CONE
L16            0 S L1 AND L15
                 E  PEREIRA A/AU
L17         1277 S E3
                 E WENTWORTH D B/AU
L18           34 S E3
                 E GANDHI R/AU
L19          300 S E3

=> s l17 or l18 or l19
L20        1605 L17 OR L18 OR L19

=> s l20 and l9
L21           1 L20 AND L9

=> d ibib ab

L21   ANSWER 1 OF 1  BIOTECHDS COPYRIGHT 2007 THE THOMSON CORP. on STN
ACCESSION NUMBER: 2005-04001  BIOTECHDS
TITLE:            Identifying compound that modulates activity of KIF18A or
                  KLP67A polypeptide by incubating cell containing KIF18A or
                  KLP67A polypeptide with test compound, and detecting altered
                  localization of KIF18A or KLP67A polypeptide in cell;
                     involving vector-mediated gene transfer and expression in
                     host cell for therapy
AUTHOR:           PEREIRA A; WENTWORTH D B; GANDHI
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AB    DERWENT ABSTRACT:
      NOVELTY - Identifying compound that modulates activity of kinesin
      superfamily (KIF)18A or KLP67A polypeptide, comprising
      obtaining test and control cell containing KIF18A or KLP67A polypeptide,
      incubating the test cell with a compound, and detecting an altered
      localization of the KIF18A or KLP67A polypeptide in the test cell as
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compared to the KIF18A or KLP67A polypeptide in the control cell, is new.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are also included for the following: (1) identifying (M2) a compound that modulates expression of a KIF18A or KLP67A DNA sequence, comprising: (a) providing a test cell and a control cell containing a nucleic acid that expresses the KIF18A or KLP67A polypeptide; (b) incubating the test cell with a test compound; and (c) detecting an increase or decrease in a KIF18A or KLP67A RNA or polypeptide population as compared to a KIF18A or KLP67A RNA or polypeptide population in a control cell, where an increase or decrease in the KIF18A or KLP67A population indicates that expression of the KIF18A or KLP67A DNA is modulated by the test compound; (2) assaying (M3) for modulation of activity of a KIF18A polypeptide in a test cell, comprising: (a) providing a dividing test cell containing a KIF18A polypeptide and a dividing control cell containing a KIF18A polypeptide; (b) measuring spindle length in the dividing test cell and the dividing control cell; and (c) determining either the amount of KIF18A polypeptide in the test cell and the control cell, or the location of KIF18A polypeptide in the test cell and the control cell, or both, where the occurrence of a longer or shorter spindle in the test cell as compared to the control cell, and either the amount of KIF18A polypeptide is different than the amount of KIF18A polypeptide in the control cell, or the location of KIF18A polypeptide in the test cell is different than the location of KIF18A polypeptide in the control cell, or both, is an indication that the activity of the KIF18A polypeptide in the test cell is different than the activity of a KIF18A polypeptide in the control cell;(3) assaying (M8) for modulation of activity of a KIF18A polypeptide in a test cell, comprising: (a) providing a dividing test cell containing a KIF18A polypeptide and a dividing control cell containing a KIF18A polypeptide; (b) measuring the angle between two ectorpically localized prophase centrosomes in the dividing test cell; and (c) determining either the amount of KIF18A polypeptide in the test cell and the control cell, or the location of KIF18A polypeptide in the test cell and the control cell, or both, where the occurrence of a 1-55degrees angle between the two prophase centrosomes in the dividing cell, and either the amount of KIF18A polypeptide is different than the amount of KIF18A polypeptide is different than the amount of KIF18A polypeptide in the control cell, or the location of KIF18A polypeptide in the test cell is different than the location of KIF18A polypeptide in the control cell, or both, indicates that the activity of the KIF18A polypeptide in the test cell is different than the activity of a KIF18A polypeptide in the control cell; (4) assaying (M9) for modulation of activity of a KIF18A polypeptide in a test cell, comprising: (a) providing a dividing test cell containing KIF18A polypeptide and a dividing control cell containing a KIF18A polypeptide; (b) determining the shape of a spindle or astral microtubule in the dividing test cell and control cell; and (c) determining either the amount of KIF18A polypeptide in the test cell and the control cell, or the location of KIF18A polypeptide in the test cell and the control cell, or both, where the occurrence of a spindle or astral microtubule in the dividing test cell that is shaped differently than a spindle or astral microtubule in the control test cell, and either the amount of KIF18A polypeptide is different than the amount of KIF18A polypeptide in the control cell, or the location of KIF18A polypeptide in the test cell is different than the location of KIF18A polypeptide in the control cell, or both, indicates that the activity of the KIF18A polypeptide in the test cell is different than the activity of a KIF18A polypeptide in the control cell; (5) assaying (M4) for modulation of expression of KIF18A, comprising:(a) providing a test cell containing a KIF18A nucleic acid and a control cell containing a KIF18A nucleic acid; and (b) determining a level of an RNA encoding by the KIF18A nucleic acid in the test and the control cell, where an increase or decrease in the level of RNA encoded by the KIF18A nucleic acid in the test cell compared to the level of RNA encoded by the KIF18A nucleic acid in the control cell indicates that the expression of a KIF18A nucleic acid is modulated, or the method optionally involves providing a test cell containing KIF18A

nucleic acid and a control cell containing a KIF18A nucleic acid and determining a level of KIF18A polypeptide encoded by the KIF18A nucleic acid in the test cell and the control cell, where an increase or decrease in the level of KIF18A polypeptide encoded by the KIF18A nucleic acid in the test cell compared to the level of polypeptide encoded by the KIF18A nucleic acid in the control cell indicated that expression of the KIF18A nucleic acid is modulated; (6) modulating (M5) the activity of a KIF18A polypeptide or KLP67A polypeptide; (7) a composition (C1) comprising an antisense nucleic acid molecule, siRNA, ribozyme, triple helix molecule, antibody, small inorganic molecule or small non-nucleic acid organic molecule that modulates the activity of KIF18A polypeptide; and (8) a kit (K1) comprising (C1) and instructions to treat a disorder mediated by or associated with a KIF18A polypeptide.

BIOTECHNOLOGY - Preferred Method: In (M1), the KIF18A polypeptide has the sequence of GenBank Accession number AL136819, comprising 898 amino acids fully defined in specification. The KLP67A polypeptide has the sequence of GenBank Accession number NM079268, comprising 814 amino acids fully defined in specification. The test compound is an antisense nucleic acid molecule, a small inhibitory RNA (SiRNA), a ribozyme, a triple helix molecule, an antibody, a polypeptide, a peptide, a polypeptide mimetic, a small inorganic molecule, or a small non-nucleic acid organic molecule. The polypeptide is localized to a region of a dividing cell other than the distal ends of astral microtubules in the presence of the test compound. The polypeptide is localized using immunocytochemistry. The polypeptide is fused to a reporter molecule chosen from green fluorescent protein (GFP), beta-glucoronidase (GUS), luciferase, chloramphenicol transacetylase (CAT), horseradish peroxidase (HRP) and beta galactosidase. In (M2), the increase or decrease in the RNA population is assayed by Northern blot, reverse transcriptase (RT)-PCR, or microarray analysis. The increase or decrease in the KIF18A or KLP67A polypeptide population is assayed by Western blot or enzyme linked immunosorbent assay (ELISA). In (M3), the spindle length of the test cell is increased or decreased by 45-100 %, as compared to the spindle length of the control cell. (M3) further involves determining whether KIF18A polypeptide from the test cell contains an altered amino acid compared to a wild type KIF18A polypeptide. In (M8), the angle between the two prophase centrosomes in the dividing test cell ranges from 130-154degrees. The centrosomes are localized by using an anti-centrosomin antibody and immunocytochemistry. (M9) further involves determining whether a KIF18A polypeptide from the test cell contains an altered amino acid compared to a wild-type KIF18A polypeptide. In (M3)-(c), the spindle or astral microtubule in the diving test cell is banana-shaped. The spindle or astral microtubule is detected using an anti-alpha-tubulin antibody and immunocytochemistry. (M3)-(b) further involves determining whether a KIF18A polypeptide from the test cell contains an altered amino acid compared to a wild-type KIF18A polypeptide. In (M4), the level of RNA is monitored by Northern blot, RT-PCR, or microarray analysis. (M4) further involves determining whether the KIF18A nucleic acid from the test cell contains a mutation. The level of KIF18A polypeptide in the test cell and in the control cell is determined by Western blot or ELISA. (M5) comprises: (a) contacting a KIF18A nucleic acid or KLP67A nucleic acid with a modulating agent in a concentration sufficient to modulate transcription of the nucleic acid; (b) contacting a cell expressing a KIF18A nucleic acid or KLP67A nucleic acid with the modulating agent in a concentration sufficient to modulate translation from an RNA encoded by the nucleic acid; or (c) contacting a cell expressing the KIF18A polypeptide or KLP67A polypeptide with the compound that binds to the polypeptide in a concentration sufficient to modulate the activity of the polypeptide. In (M5), the modulating agent is an antisense nucleic acid molecule, siRNA, a ribozyme, a triple helix molecule, an antibody, a small inorganic molecule, or a small non-nucleic acid organic molecule. Preferred Composition: In (C1), the antisense nucleic acid molecule is complementary to a segment of contiguous nucleotides of a KIF18A nucleotide sequence ranging from a length of

10-1000 nucleotides. The siRNA comprises 521 base pair fully defined in specification or its fragment. The antibody or small molecule specifically binds to a KIF18A polypeptide, or its fragment or allelic variant.

ACTIVITY - Cytostatic; Immunosuppressive; Antiarthritic; Antirheumatic; Antipsoriatic.

MECHANISM OF ACTION - Modulator of KIF18A activity (claimed). No supporting data is given.

USE - (M1) is useful for identifying a compound that modulates activity of a kinesin superfamily (KIF)18A or KLP67A (ortholog of KIF18A) polypeptide. (M2) is useful for identifying a compound that modulates expression of a KIF18A or KLP67A DNA sequence. (M5) is useful for modulating the activity of a KIF18A polypeptide or KLP67A polypeptide. (C1) is useful for modulating the activity of KIF18A. In (K1), the instruction is for treating a disorder chosen from proliferation disorder and an autoimmune disorder. The proliferation disorder is a cancer or psoriasis. The autoimmune disorder is rheumatoid arthritis. (All claimed.) (C1) is useful for treating a disorder chosen from proliferation disorder and an autoimmune disorder.(50 pages)

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L2          1307 S ASTRAL (W) MICROTUBUL?
L3             0 S L1 AND L2
L4         18079 S DIVIDING (W)CELL?
L5             0 S L1 AND L2
L6             0 S L1 AND L4
L7         27432 S DISTAL (W)END
L8             0 S L1 AND L7
L9          3202 S KIF##
L10            7 S L1 AND L9
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L12          153 S E7
L13            0 S L2 AND L12
L14            0 S L7 AND L12
L15        24219 S GROWTH (A)CONE
L16            0 S L1 AND L15
                E  PEREIRA A/AU
L17         1277 S E3
                E WENTWORTH D B/AU
L18           34 S E3
                E GANDHI R/AU
L19          300 S E3
L20         1605 S L17 OR L18 OR L19
L21            1 S L20 AND L9

=> s prophase (w)centromere
L22           15 PROPHASE (W) CENTROMERE

=> s (l12 or l1) and l22
L23            0 (L12 OR L1) AND L22

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L13           0 S L2 AND L12
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L16           0 S L1 AND L15
                E  PEREIRA A/AU
L17        1277 S E3
                E WENTWORTH D B/AU
L18          34 S E3
                E GANDHI R/AU
L19         300 S E3
L20        1605 S L17 OR L18 OR L19
L21           1 S L20 AND L9
L22          15 S PROPHASE (W)CENTROMERE
L23           0 S (L12 OR L1) AND L22
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	Issue Date	Pages	Document ID	Title
1	20041202	50	US 20040241760 A1	Kinesin-like proteins and methods of use

	Issue Date	Pages	Document ID	Title
1	20061019	27	US 20060235050 A1	Diamine calcium channel blockers
2	20060323	41	US 20060063775 A1	Urea derivatives as calcium channel blockers
3	20060105	447	US 20060003322 A1	Bioinformatically detectable group of novel regulatory genes and uses thereof
4	20051013	25	US 20050227999 A1	Diarylamine derivatives as calcium channel blockers
5	20050728	41	US 20050165065 A1	N-type calcium channel blockers
6	20041202	50	US 20040241760 A1	Kinesin-like proteins and methods of use
7	20040617	107	US 20040115687 A1	Cell adhesion and extracellular matrix proteins
8	20040318	207	US 20040053824 A1	Extracellular matrix and cell adhesion molecules

	L #	Hits	Search Text
1	L1	219	bera
2	L2	6144	BERAUD WIEMANN PERIERA WENTWORTH GANDHI
3	L3	30	astral adj microtubul$3
4	L4	1	l2 and l3
5	L5	1163	growth ADJ cone$3
6	L6	8	l2 and l5
7	L7	2686	kif$3
8	L8	80	l2 and l7
9	L9	402	kinesin and l7
10	L10	77	kinesin and l8
11	L11	0	prophase adj centromere
12	L12	21	l8 and centromere
13	L13	619	BERAUD WIEMANN
14	L14	0	l3 and l13

	Issue Date	Pages	Document ID	Title
1	20060420	120	US 20060084799 A1	Human cDNA clones comprising polynucleotides encoding polypeptides and methods of their use
2	20060105	447	US 20060003322 A1	Bioinformatically detectable group of novel regulatory genes and uses thereof
3	20050407	30	US 20050074859 A1	Novel motor proteins and methods for their use
4	20050310	44	US 20050054041 A1	Kini-3 motor protein and methods for its use
5	20041202	50	US 20040241760 A1	Kinesin-like proteins and methods of use
6	20041118	38	US 20040229308 A1	Novel motor proteins and methods for their use
7	20041118	38	US 20040229238 A1	Novel motor proteins and methods for their use
8	20041014	13	US 20040203006 A1	Novel beta-tubulin protein of Candida glabrata and methods for its use
9	20040930	19	US 20040191771 A1	Candida albicans cofilin
10	20040819	31	US 20040161755 A1	Novel motor proteins and methods for their use
11	20040722	27	US 20040142397 A1	Novel motor proteins and methods for their use
12	20040520	46	US 20040096949 A1	Novel motor proteins and methods for their use
13	20040506	31	US 20040086878 A1	Novel motor proteins and methods for their use

14	20040212	32	US 20040029792 A1	Novel motor proteins and methods for their use

	Issue Date	Pages	Document ID	Title
15	20040205	28	US 20040023255 A1	Motor proteins and methods for their use
16	20030911	26	US 20030170857 A1	Novel motor proteins and methods for their use
17	20030605	32	US 20030104496 A1	Novel motor protein of P. falciparum and methods for its use
18	20030306	19	US 20030044900 A1	Human kinesins and methods of producing and purifying human kinesins
19	20030220	31	US 20030036075 A1	KinI-3 motor protein and methods for its use
20	20020815	39	US 20020110883 A1	Novel motor proteins and methods for their use
21	20070130	130	US 7171311 B2	Methods of assigning treatment to breast cancer patients
22	20051011	12	US 6953661 B1	Method of preventing transport of a neurotropic virus and identifying agents for achieving same
23	20050906	27	US 6939684 B1	Motor proteins and methods for their use
24	20040928	21	US 6797484 B1	Motor proteins and methods for their use
25	20040921	42	US 6794178 B2	Kini-3 motor protein and methods for its use
26	20040713	26	US 6762043 B1	Motor proteins and methods for their use
27	20040316	27	US 6706489 B1	Motor proteins and methods for their use
28	20040210	26	US 6689890 B2	Efficient lactam synthesis

29	20040120	36	US 6680369 B2	Motor proteins and methods for their use

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30	20031216	19	US 6664072 B1	Kits for screening for modulators of the motor protein HsKip3b
31	20031118	19	US 6649363 B1	Motor proteins and methods for their use
32	20031028	45	US 6638754 B1	Motor proteins and methods for their use
33	20030909	28	US 6617144 B1	Motor proteins and methods for their use
34	20030826	27	US 6610525 B1	Motor proteins and methods for their use
35	20030624	22	US 6582958 B1	Nucleic acids encoding HsKif2x, a human kinesin motor protein
36	20030513	24	US 6562610 B1	Motor proteins and methods for their use
37	20030422	25	US 6551787 B1	Motor proteins and methods for their use
38	20030415	23	US 6548267 B1	Motor proteins and methods for their use
39	20030408	74	US 6544766 B1	Human kinesins and methods of producing and purifying human kinesins
40	20030318	25	US 6534309 B1	Motor proteins and methods for their use
41	20030204	42	US 6514738 B1	KinI-3 motor protein and methods for its use
42	20021210	20	US 6492158 B1	Human kinesin protein HsKif6
43	20021210	24	US 6492151 B1	Motor proteins and methods for their use

44	20021008	21	US 6461855 B1	Motor proteins and methods for their use

	Issue Date	Pages	Document ID	Title
45	20020924	33	US 6455293 B1	Human kinesin-like protein HSKIF21B
46	20020910	30	US 6448026 B1	Screening assays for modulators of human kinesin protein HsKrp5
47	20020910	31	US 6448025 B1	Motor proteins and methods for their use
48	20020827	30	US 6440731 B1	Polynucleotides encoding HsKrp5 a kinesin related protein
49	20020827	30	US 6440685 B1	Screening assays for modulators of human kinesin protein HsKif16b
50	20020827	34	US 6440684 B1	Methods of identifying modulators of kinesin motor proteins
51	20020820	21	US 6436686 B1	Motor proteins and methods for their use
52	20020813	19	US 6432660 B1	Motor proteins and methods for their use
53	20020813	21	US 6432659 B1	Motor proteins and methods for their use
54	20020806	19	US 6429005 B1	Motor proteins and methods for their use
55	20020730	19	US 6426207 B1	Motor proteins and methods for their use
56	20020730	34	US 6426193 B1	Screening assays for modulators of human kinesin protein HsKif21b
57	20020716	27	US 6420162 B1	Nucleic acids encoding hskif16a, a kinesin motor protein

	Issue Date	Pages	Document ID	Title
58	20020709	20	US 6416966 B1	Screening assays for modulators of human kinesin protein HsKif6
59	20020604	30	US 6399346 B1	Human kinesin-like protein HsKif16b
60	20020528	27	US 6395540 B1	Nucleic acids encoding HsKifC2, a kinesin motor protein
61	20020528	24	US 6395527 B1	Motor proteins and methods for their use
62	20020521	21	US 6391613 B1	Motor proteins and methods for their use
63	20020521	20	US 6391601 B1	Motor proteins and methods for their use
64	20020521	19	US 6391573 B1	Screening assays for modulators of human kinesin protein HSKIP3B
65	20020514	27	US 6387679 B1	Motor proteins and method for their use
66	20020514	26	US 6387644 B1	Motor proteins and methods for their use
67	20020507	33	US 6383796 B1	Nucleic acids encoding HSKIF21B, a kinesin motor protein
68	20020430	29	US 6379941 B1	Human kinesin-related protein HsKrp5
69	20020430	31	US 6379912 B1	Motor proteins and method for their use
70	20020409	19	US 6368841 B1	Human kinesin-related protein HsKip3b
71	20020326	21	US 6361993 B1	Human HSET motor proteins and methods for their use

72	20020312	28	US 6355471 B1	Nucleic acids encoding Hskif16b, a kinesin motor protein

	Issue Date	Pages	Document ID	Title
73	20020312	30	US 6355466 B1	Motor proteins and methods for their use
74	20020312	27	US 6355447 B1	Motor proteins and methods for their use
75	20020212	20	US 6346410 B1	Motor proteins and methods for their use
76	20020101	27	US 6335189 B1	Motor proteins and methods for their use
77	20011225	27	US 6333184 B1	Motor proteins and methods for their use
78	20011218	27	US 6331430 B1	Motor proteins and methods for their use
79	20011218	44	US 6331424 B1	Motor proteins and methods for their use
80	20010925	19	US 6294371 B1	Motor proteins and methods for their use